

3/1 $v_2^2 - v_1^2 = 2a(x_2 - x_1)$
 $0^2 - \left(\frac{100}{3.2}\right)^2 = 2a_x(50)$, $a_x = -7.72 \text{ m/s}^2$


$\Sigma F_x = ma_x$: $-4F = 1500(-7.72)$
 $F = 2870 \text{ N}$

3/2 $50(9.81) \text{ N}$ $\Sigma F_y = 0$: $N - 50(9.81) \cos 15^\circ = 0$
 $N = 474 \text{ N}$ Throughout

(a) $P = 0$
 Equilibrium check:
 $\Sigma F_x = 0$: $F - 50(9.81) \sin 15^\circ = 0$
 $F = 127.9 \text{ N}$

$F_{\max} = \mu_s N = 0.2(474) = 94.8 \text{ N} < F$: motion $\checkmark$
 $\Sigma F_x = ma_x$: $0.15(474) - 50(9.81) \sin 15^\circ = 50a_x$
 $a_x = -1.118 \text{ m/s}^2$

(b) $P = 150 \text{ N}$; Equilibrium check:
 $\Sigma F_y = 0$: $150 + F - 50(9.81) \sin 15^\circ = 0$

$F = -23.9 \text{ N}$, $|F| < F_{\max}$ so no motion: $a = 0$

(c) $P = 300 \text{ N}$; Equilibrium check yields $F = -173.0 \text{ N}$
 $|F| > F_{\max}$, so motion $\checkmark$, $F = F_k \checkmark$.
 $\Sigma F_x = ma_x$: $300 - 0.15(474) - 50(9.81) \sin 15^\circ = 50a_x$
 $a_x = 2.04 \text{ m/s}^2$

3/3 80 lb $\Sigma F_y = 0$: $N - 80 \cos 20^\circ = 0$
 $N = 75.2 \text{ lb}$
 $\Sigma F_x = ma_x$:
 $-0.25(75.2) - 80 \sin 20^\circ = \frac{80}{32.2} a$
 $a = -18.58 \text{ ft/sec}^2$

$v = v_0 + at$: $0 = 30 - 18.58t$, $t = 1.615 \text{ sec}$
 $v^2 = v_0^2 + 2a(s - s_0)$: $0^2 = 30^2 + 2(-18.58)d$
 $d = 24.2 \text{ ft}$

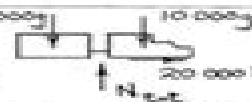
$v^2 = v_0^2 + 2a(s - s_0)$: $15^2 = 30^2 + 2(-18.58)d'$
 $d' = 18.17 \text{ ft}$

3/4 $300,000(9.81) \text{ N}$

 $\Sigma F_x = ma_x$:
 $3(240,000) - 300,000(9.81) \sin \frac{1}{2}^\circ = 300,000 a_x$
 $a_x = 2.31 \text{ m/s}^2$

$v^2 = 2a_x s$: $\left(\frac{220}{3.6}\right)^2 = 2(2.31)s$, $s_x = 807 \text{ m}$

 $\Sigma F_x = ma_x$:
 $3(240,000) + 300,000(9.81) \sin \frac{1}{2}^\circ = 300,000 a_x$
 $a_x = 2.49 \text{ m/s}^2$
 $v^2 = 2a_x s$: $\left(\frac{220}{3.6}\right)^2 = 2(2.49)s$, $s_x = 751 \text{ m}$

3/5 For entire unit: $20,000 \text{ kg}$ $10,000 \text{ kg}$
 $\Sigma F = ma$: $20,000 = 30,000a$
 $a = 0.667 \text{ m/s}^2$


For trailer alone, $T = 20,000(0.667) = 13,330 \text{ N}$
 or $T = 13.33 \text{ kN}$


3/6 $\Sigma F_x = ma_x$: $mg \sin 40^\circ - \mu_k mg \cos 40^\circ = ma$
 $a = 9.81(\sin 40^\circ - \mu_k \cos 40^\circ)$
 $= 6.31 - 7.51 \mu_k$


For constant accel. $s = v_0 t + \frac{1}{2} a t^2$:
 $20 = 0 + \frac{1}{2}(6.31 - 7.51 \mu_k) 2.58^2$
 $\mu_k = 0.0595$

3/7 $\Sigma F = ma$: $T - 100 = \frac{100}{32.2} a$
 (a) $T \uparrow$ $150 - T = \frac{100}{32.2} a$
 $50 = \frac{200}{32.2} a$, $a = \frac{32.2}{2} = 16.10 \frac{\text{ft}}{\text{sec}^2}$


(b) $150 - 100 = \frac{100}{32.2} a$, $a = \frac{32.2}{2} = 16.10 \frac{\text{ft}}{\text{sec}^2}$


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Yi-Tong Ma



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